PATENT SPECIFICATION

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(71) We, MERZ & Co., a company organised under the laws of Germany, of Eckenheimer Landstrasse 100—104, Frankfurt/Main, Germany, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to a cosmetic face

10 mask.

Cosmetic face masks are used in skin care with the main object of stimulating the blood supply and tightening the skin. These cosmetic face masks can have various consistencies, for example they can be pastes or thickened solutions. Cosmetic face masks have hithered solutions. Cosmetic face masks have hithered so viscous liquids in which the solvent, for example water, evaporates. Masks such as these are made up, for example, in accordance with the following basic formulations:

1. Fat-free pastes:

by weight

Expanding clays (water-containing aluminium silicates)

zinc oxide

water

by weight

15%

2%

83%

2. Wax mixtures:

Solid paraffin with 10% by weight of beeswax added to it

3. Viscous liquids:

25	Methyl cellulose glycerol	10% 10%
	water	80%

Before application, the masks based on expanding clays have to be made coatable with liquids. Wax mixtures have to be heated before they can be applied. Viscous solutions can only be applied with a brush in very thin layers, so that it is not possible to obtain a fairly thick, covering layer that retains heat,

as is the case with fat-free pastes and wax mixtures.

The fat-free pastes harden through gradual evaporation of the water. Following application, wax mixtures have to be allowed to cool so that they may harden. Evaporation is necessary in the case of viscous solutions containing water as the solvent, in order to obtain a thin film of the wax over the skin.

After they have been used, fat-free pastes and wax mixtures both of which effectively retain heat, have to be mechanically removed

or washed off.

It has now been found that the retention of heat desired of the masks which opens the pores of the skin and stimulates the blood supply, can be obtained much more simply and effectively by using a foam mask as the face mask. Unlike fat-free pastes and wax mixtures, foam masks require only a small amount of solid constituents because the process of foaming provides a voluminous foam mask which may be brushed on to the skin in layers as thick as pastes based on clay or wax mixtures. Another advantage of these foam masks is that they are readily washed off. Alternatively, if they are not removed after use, they soon collapse on the skin to form a layer that is difficult to notice.

The present invention provides a pressurised composition adapted to form a foamed cosmetic mask upon release of the pressure thereof, which composition comprises

a) a foundation comprising a secondary or tertiary ester of orthophosphoric acid with a C₁₆—C₁₈ wax alcohol tetraethyleneglycol ether, cetyl stearyl alcohol, sodium cetyl stearyl sulphate, sodium lauryl sulphate, an alkali metal stearate, triethanolamine stearate, a condensation product of nonylphenol and 8—15 molecules of ethylene oxide and/or a secondary or tertiary ester of orthophosphoric acid with a fatty alcohol alkylene glycol ether or polyalkyleneglycolether,

b) a foam stabiliser comprising a salt of the condensation product of a saturated C₁₂—C₁₈ fatty acid and sarcosine, oleic acid oleyl

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vegetable fatty acids and/or isopropyl myris-

ester, a triglyceride mixture of saturated c) a liquid comprising water, whey, an aqueous solution of sorbitol and/or a mixture comprising up to 90% by weight of glycerol or a glycol and at least 10% by weight of water, and

d) a propellant for aerosol compositions. Conveniently, the compositions according to the invention comprise substantially 1% by weight of the foundation (a), 2% by weight of the foam stabiliser (b) and 97% by weight of the liquid (c), based on the total of (a),

(b) and (c).

According to one advantageous embodiment of a composition according to the invention, the foundation (a) is a secondary or tertiary ester of orthophosphoric acid with a C₁₂—C₁₄ wax alcohol tetraethyleneglycol ether, the foam stabiliser (b) is a salt of the condensation product of a saturated C12-C18 fatty acid and sarcosine, and the liquid (c) is

It is advisable to add liquid paraffin as an additional base, advantageously in a quantity of substantially 1% by weight, to the necessary components (a), (b) and (c) in order to soften the foam.

A particularly stable foam is formed when the water forming the liquid (c) is replaced

either wholly or in part by whey.

The addition of extracts of soya and/or lucerne also gives a more stable foam, through the introduction of vegetable protein. Similarly, plant extracts containing saponin, for example horse chestnut and/or cyclamen, are suitable for use as foam-improving addi-

The foam can be stabilised and the skintightening effect improved by the addition of swelling agents such as gelatin, tragacanth, carragheen, alginates, pectin, agar-agar, guar flour, gum arabic, methyl cellulose, carboxy-45 methyl cellulose, and/or polyvinyl pyrrolidone.

WHAT WE CLAIM IS:-

1. A pressurised composition adapted to form a foamed cosmetic mask upon release 50 of the pressure thereof which composition comprises:

a) a foundation comprising a secondary or tertiary ester of orthophosphoric acid with a C₁₆—C₁₈ wax alcohol tetraethyleneglycol ether, cetyl stearyl alcohol, sodium cetyl stearyl sulphate, an alkali metal stearate, triethanolamine stearate, a condensation product of nonylphenol and 8-15 molecules of ethylene oxide and/or a secondary or tertiary ester of orthophosphoric acid with a fatty alcohol alkylene glycol ether or polyalkyleneglycolether,

b) a foam stabiliser comprising a salt of the condensation product of a saturated C12 C18 fatty acid and sarcosine, oleic acid oleyl ester, a triglyceride mixture of saturated vegetable fatty acids and/or isopropyl myristate,

c) a liquid comprising water, whey, anaqueous solution of sorbitol and/or a mixture comprising up to 90% by weight of glycerol or a glycol and at least 10% by weight of water, and

 d) a propellant for aerosol compositions.
 2. A composition as claimed in claim 1 which comprises substantially 1% by weight of the foundation (a), 2% by weight of foam stabiliser (b), and 97% by weight of liquid (c), based on the total of (a), (b) and (c).

3. A composition as claimed in claim 1 or 2 wherein the foundation (a) is a secondary or tertiary ester of orthophosphoric acid with a C16-C1, wax alcohol tetraethyleneglycol ether, the soam stabiliser (b) is a salt of the condensation product of a saturated C12-C1. fatty acid and sarcosine, and the liquid (c) is water.

4. A composition as claimed in any of claims 1 to 3 which comprises an extract of soya, lucerne, horse chestnut and/or cyclamen

as a foam-improving additive.

5. A composition as claimed in any of claims 1 to 4 which comprises a swelling agent, such as gelatin, tragacanth, carragheen, an alginate, pectin, agar-agar, guar flour, gum arabic, methyl cellulose, carboxymethylcellulose and/or polyvinyl pyrrolidone.

6. A composition as claimed in any of claims 1 to 5 which comprises liquid para-

ffin as a foam softening agent.

7. A composition as claimed in claim 6 100 comprising substantially 1% by weight of liquid paraffin, based on total (a), (b) and

8. A composition as claimed in claim 1 105 substantially as hereinbefore described.

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